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CONFERENCE REVIEWS RESEARCH WORK

S. M. Kochergin

The scientific technical conference held at the Kazan' Institute of Chemical Technology, 1 - 6 June 1946, undertook two basic jobs: (1) to sum up the institute's scientific research work for the past year; and (2) to consider some practical problems of Tatar SSR industry.

There were two plenary sessions. Work was done by the chemical technical section and special technology sections.

The engineers and technicians of the plants, scientific workers of the higher educational institutions of Kazan', and scientific workers of the Leningrad Institute of Chemical Technology took part in the sessions.

In all 38 papers were discussed. More than 1,000 persons attended the plenary sessions.

At the plenary sessions the following reports were heard: Prof B. L. Kondratskiy, Doctor of Technical Sciences, "Statistical Methods in Industry"; Prof A. M. Vasil'yev, Doctor of Chemical Sciences, "Present-day Methods in Organic Synthesis"; and Docent A. M. Nikolayev, "Application of Centrifugal Apparatus in Industry."

The work of the chemical section was opened by the report of Prof A. M. Vasil'yev on "The Temporary Hardness of Water." This report clarified the phenomenon of the temporary hardness of water, derived from the principle of the origin of solubility and concentration of the hydrogen ion, created in the water by free carbonic acid ( $\text{CO}_2$ ).

Docent A. I. Razumov gave new data on "The Synthesis of Phosphon-acetone and Some of its Properties." Phosphon-acetone was synthesized, of composition  $(\text{C}_2\text{H}_5\text{O})_2\text{PCH}_2\text{COOH}$ , in two forms of identical composition but with different physical and chemical properties. The presence of two tautomeric forms in phosphon-acetone was stated.

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1

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Other reports presented included: Docent A. V. Nesmelov, results of his experiment on the state of a real gas; Docent N. P. Mazurov, "Indirect Determination of Zinc"; Prof A. M. Vasil'yev and Candidate Sokolov, "Farmer's Reducer as a Reagent on Picric and Styphnic Acids"; Professor Kamay, "Obtaining Esters of Cacodyl Phosphinic Acid"; Docent B. M. Kozlyev, "Paramagnetic Relaxation"; and Docent A. M. Nikiiforov, "Spectroscopic Determination of Temperature of High-Frequency Jet Discharge."

The work of the technical section attracted much attention from industrial workers. The first 2 days of the section's work were devoted to the problem of theoretical and practical electrochemistry. A synoptic report of S. M. Kochergin, Candidate in Technical Sciences, on "Progress and Course of Development of Galvanotechnics in the USSR and USA" prompted many questions from the factory workers regarding the newest methods in electric polishing, the application of luminous coverings, the struggle against wastage and rejects during nickel- and chrome-plating, galvanizing, etc. Reports were made on specific problems of galvanotechnics.

Prof G. S. Vozdvizhenkiy presented new data on the mechanism of electro-deposition of nickel, and showed the significance of hydrogen in the cathodic process. He introduced experimental data and thermodynamic considerations that clarified the mechanism of electro-crystallization of nickel, and demonstrated the absence of the colloidal phase in the film surrounding the cathode during the deposition of nickel under optimum conditions.

S. M. Kochergin presented data on the texture of electrolytic precipitates and depositions and reported on "The Application of Zincate Baths in Galvanotechnics."

Engineer L. V. Rosman made a report on "The Work of the Electrochemical Laboratory of the Mashinostroy Plant."

The work of the technical section was devoted also to general technological problems. Prof A. A. Trufanov gave a report on the work of D. I. Mendeleev in the field of hydraulics. Engineer Borin reported on "The Problems of Colored Cinemas and the Provision of Chemical Materials." Engineer Valiullin's lecture on "Some Improvements in the Field of Obtaining of Nitric Acid" showed the possibility of accelerating the process of its control during low temperatures.

The special technology section devoted itself to the problems encountered during the scientific research work of importance to defense. Reports were made by Prof Zakharov, Prof Kholevo, Docent Moysak, Docent Kozlov, Docent Gavrilov, Docent Sibgatullin, assistant Naumova, assistant Yevseyev, Candidate Korshunov, Engineer Tropp, and Engineer Loginichev.

The conference also discussed the lecture by Popov, deputy chief of the technical department in the Ministry of Local Industry Tatar ASSR, on "Status and Course of Development of Local Industry," and the lecture of Klyuchevich, Candidate in Technical Sciences, on "The Experiments of the Combine imeni Vakhitov in the Field of Synthetic Detergents."

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- 2 -

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